"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

L 41287-65
ACCESSION NR: AP5000865 0

$$y = f(x) \qquad (0.4)$$

and shows that if the zero solution of

$$\frac{dx}{dt} = Ax + X(x, f(x)), \qquad (0.5)$$

is stable, asymptotically stable, or unstable, the zero solution of (0.1) is correspondingly stable, asymptotically stable, or unstable. The techniques used extend previous results, which were valid only in the algebraic case, to the transcendental case. Orig. art has: 193 equations.

ASSOCIATION: none

SUBMITTED: 27Dec63 ENC: 00 SUB CODE: MA

NO SOV REF: 010 OTHER: 001

Card 2/2

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

PLISS, V.A.

Study of a transcendental case in the theory of stability of motion. Izv. AN SSSR. Ser. mat. 28 no. 4:911-924 Jl-Ag '64. (MIRA 17:9)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

PLISS, Viktor Aleksandrovich; PETROV, N.N., red.

[Nonlocal problems in the theory of oscillations] Nelokal'nye problemy teorii kolebanii. Moskva, Izd-vo "Nauka," 1964. 367 p. (MIRA 17:7)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

PLISS, V. A. (Leningrad)

"Uber einen kritischen Fall der Stabilitat einer Bewegung."

report submitted for 3rd Conf on Nonlinear Oscillations, E. Berlin, 25-30 May 64.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

PLISS, V.A.

The reduction principle in the theory of stability of motion. Dokl. AN SSSR 154 no.5:1044-1046 F'64. (MIRA 17:2)

1. Leningradskiy gosudarstvennyy universitet im. A.A. Zhdanova. Predstavleno akademikom V.I. Smirnovym.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

ACCESSION NR: AP4012075 S/0020/64/154/002/0268/0270

AUTHOR: Plisa, V.A.

TITLE: Stability of motion in a doubtful case of two zero roots

SOURCE: AN SSSR. Doklady*, v. 154, no. 2, 1964, 268-270

TOPIC TAGS: Lyapunov solution, motion stability, zero root, two zero root equation, vector function, mathematical analysis, differential equation, continuously-differentiable function

ABSTRACT: The study carried out by A.M. Lyapunov (Issledovanie odnogo iz osobenny* kh sluchayev zadachi ob ustoychivosti dvizheniya, An analysis of a special case of the problem of stability of motion, Leningrad, 1963) was analysis. The paper relates to stability in a doubtful case of two zero roots with a non-prime elementary divisor when the number of equations in the system is greater than two. In only one case the Lyapunov's analysis was not exhaustive. He proved the existence of the function $\varphi(C)$ and

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studied its properties in detail. He further established that the function $\varphi(C)$ is continuously differentiable.
From the forms of the systems

$$\frac{d\rho}{d\theta} = cP(c, \rho, \zeta, \theta),$$
$$c^{\sigma-1}\frac{d\zeta}{d\theta} = A\zeta + cF(c, \rho, \zeta, \theta), \quad (1)$$

and

$$\frac{d\rho}{d\theta} = CP(c, \rho, \zeta, \theta) + \varphi(c),$$
$$c^{\sigma-1}\frac{d\zeta}{d\theta} = A\zeta + cF(c, \rho, \zeta, \theta), \quad (2)$$

it follows that, for those C where $\varphi(C) = 0$, system (1) has a ω-periodic solution

$$\rho = \rho_0(c, \theta), \quad \zeta = \zeta_0(c, \theta)$$

Lyapunov did not analyze the case when the function $\varphi(C)$ in any

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ACCESSION NR: AP4012075

vicinity of the point C = 0 can assume a zero as well as a negative value. It can be proved that stability exists in this particular case. The following theorem is valid. If there exists such a set of positive numbers C containing the zero of its limit point so that $\varphi(C) = 0$ with $C \in C$, then the zero solution of the system

$$\frac{dr}{dt} = r^{q+1}R_1(r, \theta) + rR_2(r, z, \theta),$$
$$\frac{d\theta}{dt} = r^{q-1} + r^q\Theta_1(r, \theta) + \Theta_2(r, z, \theta),$$
$$\frac{dz}{dt} = Az + Z(r, z, \theta), \qquad (3)$$

is stable with respect to the variables r and z. Orig. art. has: 11 equations.

ASSOCIATION: Leningradskiy gosudarstvenny*y universitet im. A.A. Zhdanova (Leningrad State University)

SUBMITTED: 22Jul63 DATE ACQ: 14Feb64 ENCL: 00

SUB CODE: MM NO REF SOV: 001 OTHER: 000

Card 3/3

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

PLISS, V. A.

On conditional stability in critical cases. Dokl. AN SSSR 147 no.6:1292-1293 D '62. (MIRA 16:1)

1. Leningradskiy gosudarstvennyy universitet im. A. A. Zhdanova. Predstavleno akademikom V. I. Smirnovym.

(Differential equations)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

PLISS, V. A.,

"Contitions of stability in critical cases,"

Report presented at the Conference on Applied Stability-of-Motion Theory and Analytical Mecahnicz, Kazan Aviation Institute, 6-8 December 1962

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

44535
S/020/62/147/006/004/034
B112/B186

AUTHOR: Pliss, V. A.

TITLE: Conditional stability in critical cases

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 147, no. 6, 1962, 1292-1293

TEXT: The author considers a differential equation system

$$dx/dt = Px + X(x,y), \quad dy/dt = Qy + Y(x,y) \qquad (1)$$

with constant matrices P and Q all the eigenvalues of which have positive real parts. Two theorems are derived, of which the first is as follows: If the zero solution of the system $dy/dt = Qy + Y(0,y)$ is asymptotically stable for $t \to +\infty$, independently of the form of terms the order of which is higher than N, and if the expansion of the function $X(0,y)$ starts with terms the order of which is not less than N+1, then there will exist a continuously differentiable function $f(y)$ such that $f(0) = 0$ and that each solution of system (1) that begins on the manifold $x = f(y)$ remains on it. In addition, the zero solution of (1) will be asymptotically stable for $t \to +\infty$ if the initial data satisfy the condition $x = f(y)$. The second

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

Conditional stability in ...

theorem is the converse of the first.

ASSOCIATION: Leningradskiy gosudarstvennyy universitet im. A. A. Zhdanova (Leningrad State University imeni A. A. Zhdanov)

PRESENTED: June 8, 1962, by V. I. Smirnov, Academician

SUBMITTED: May 16, 1962

Card 2/2

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

PLISS, V.A.

Nonlocal problems in the vibration theory. Vest. LGU 17 no.13: 30-46 '62. (MIRA 15:7)

(Vibration)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

PLISS, V.A.

Boundedness of solutions to certain nonlinear differential equations of the third order. Dokl. AN SSSR 139 no.2:302-304 Jl '61. (MIRA 14:7)

1. Leningradskiy gosudarstvennyy universitet im. A.A. Zhdanova. Predstavleno akademikom V.I. Smirnovym.
(Differential equations) (Functions, Continuous)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

PLISS, V.A.

The phenomenon of convergence in periodic nonlinear systems. Dokl. AN SSSR 138 no.2:301-304 My '61. (MIRA 14:5)

1. Leningradskiy gosudarstvennyy universitet im. A.A.Zhdanova. Predstavleno akademikom V.I.Smirnovym.
(Differential equations) (Convergence)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

PLISS, V.A.

Existence of periodic solutions for certain nonlinear systems. Dokl. AN SSSR 137 no.5:1060-1062 Ap '61. (MIRA 14:4)

1. Leningradskiy gosudarstvennyy universitet im. A.A.Zhdanova. Predstavleno akademikom V.I.Smirnovym.
(Differential equations, Partial)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

PLISS, V.A. (Leningrad)

"An analysis of a transcendental case in the theory of motion stability"

Report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscow 29 Jan - 5 Feb 64.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

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C111/C222

16.3400

AUTHOR: Pliss, V.A.

TITLE: The phenomenon of convergence in nonlinear periodic systems

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 138, no.2, 1961, 301-304

TEXT: The author considers

$$\frac{dx}{dt} = f(x,t) \qquad (1)$$

where $x = \{x^{(1)}, \ldots, x^{(n)}\}$, $f(x,t) = \{f^{(1)}(x,t), \ldots, f^{(n)}(x,t)\}$. $f(x,t)$ is continuous; $f(x,t+\omega) = f(x,t)$; $f(x,t)$ is so that (1) has unique solutions for all x,t.

Let $\xi = \{\xi^{(1)}, \ldots, \xi^{(n)}\}$, $\|\xi\| = \sum_{i=1}^{n} |\xi^{(i)}|$. Let $x(t,x_0,t_0)$ be the solution of (1) with the initial data t_0, x_0.

Let (1) have the convergence property if
I. all solutions $x(t,x_0,t_0)$ are continuable for all $t \geq t_0$,
II. (1) has a unique ω - periodic solution $x = \varphi(t)$,

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

The phenomenon of convergence ...

III. this solution is stable in the sense of Lyapunov,
IV. for every $x(t,x_0,t_0)$ it holds

$$\lim_{t\to+\infty} \| x(t,x_0,t_0) - \varphi(t) \| = 0 \quad . \qquad (2)$$

Let I. be satisfied : If to every point x_0 there corresponds the point $x(\omega, x_0, 0)$ then one obtains a homeomorphic mapping T of the space E_n into itself.

Theorem : In order that (1) has the convergence property it is necessary and sufficient that :
I. all solutions $x(t,x_0,t_0)$ are continuable for $t \geqslant t_0$;
II. there exists a closed bounded set $F \subset E_n$ which for the mapping T goes over into itself ;
III. there exists a continuous function $v(x,y)$ of the points $x,y \in E_n$ with the properties : 1) $v(x,y) \geqslant 0$ and $v(x,y) = 0$ then and only then if

Card 2/3

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

$x \neq y$; 2) $v(x,y) \to \infty$ for $\|y\| \to \infty$ for arbitrary $x \in F$; 3) $v(T(x), T(y)) \leq v(x,y)$ and if $v(T(x), T(y)) = v(x,y)$ then $x = y$. As an example the author gives the system

$$\frac{dx_k}{dt} = \sum_{\nu=1}^{n} b_{k\nu}x_\nu + h_k f(\sigma) + p_k(t) \quad , \quad \sigma = \sum_{i=1}^{n} \alpha_i x_i \quad (k=1,..,n) \tag{15}$$

where $f'(\sigma) > 0$, $p_k(t)$ is continuous and $p_k(t+\omega) = p_k(t)$; under certain conditions (15) has the convergence property.
There are 2 Soviet-bloc and 1 non-Soviet-bloc references.
The reference to the English-language publication reads as follows : J.L. Massera, Ann. of Math., 50, no. 3 (1949).

ASSOCIATION: Leningradskiy gosudarstvennyy universitet imeni A.A. Zhdanova (Leningrad State University imeni A.A.Zhdanov)
PRESENTED: December 22, 1960, by V.I. Smirnov, Academician
SUBMITTED: November 25, 1960

Card 3/3

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

PLISS, Ya., inzh.; MAKHNIN, S., inzh.

Automatic condensate discharger. Mekh. transp. 24 no.4:54 '65.
(MIRA 18:5)

1. Leningradskiy gosudarstvennyy institut proyektirovaniya na rechnom transporte.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

L 65054-65 EWT(m)/EPA(w)-2/EWA(m)-2 IJP(c)
ACCESSION NR: AT5009472 Z/0000/64/000/000/0254/0258

AUTHORS: Pl'ss, Yu. A.; Soroko, L. M. 44,55 W,55

TITLE: Proton depolarization in cyclotrons 19,W,55

33
27
B+1

SOURCE: Conference on Low Temperature Physics and Techniques. 3d, Prague, 1963. Physics and techniques of low temperatures; proceedings of the conference. Prague, Publ. House of the Czechosl. Academy of Sciences, 1964, 254-258

TOPIC TAGS: proton accelerator, proton polarization, deuteron reaction, depolarization, relativistic particle, synchrocyclotron

ABSTRACT: The authors first describe briefly a method of calculating the depolarization of resonance produced in a particle accelerator, based on linearization of the relativistic equation of spin motion in an external electromagnetic field, and then presents the results of depolarization calculations for protons investigated in

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

the synchrocyclotron of the Laboratory of Nuclear Problems of the Joint Institute of Nuclear Research in Dubna. An analysis shows that phase oscillations do not change the result of the calculation. The calculations of proton depolarization in a relativistic cyclotron were made on the basis of the design topography of the magnetic field, and were aimed at determining the requirements of shimming accuracy of the magnetic field. It is shown that the requirements for a relativistic cyclotron are somewhat more stringent than those for a synchrocyclotron because of the stronger radial and azimuthal variations of the magnetic field. It is reported that the depolarizing effects in the cyclotron with the azimuthal variation of the magnetic field of the I. V. Kurchatov Atomic Energy Institute have been calculated by this method and despite strong field modulation in this cyclotron, nonresonance depolarization is very small, while the resonance depolarization does not occur. "The authors thank V. P. Dmitriyevskiy and V. V. Kolga for valuable remarks." Orig. art. has: 2 tables and 13 formulas.

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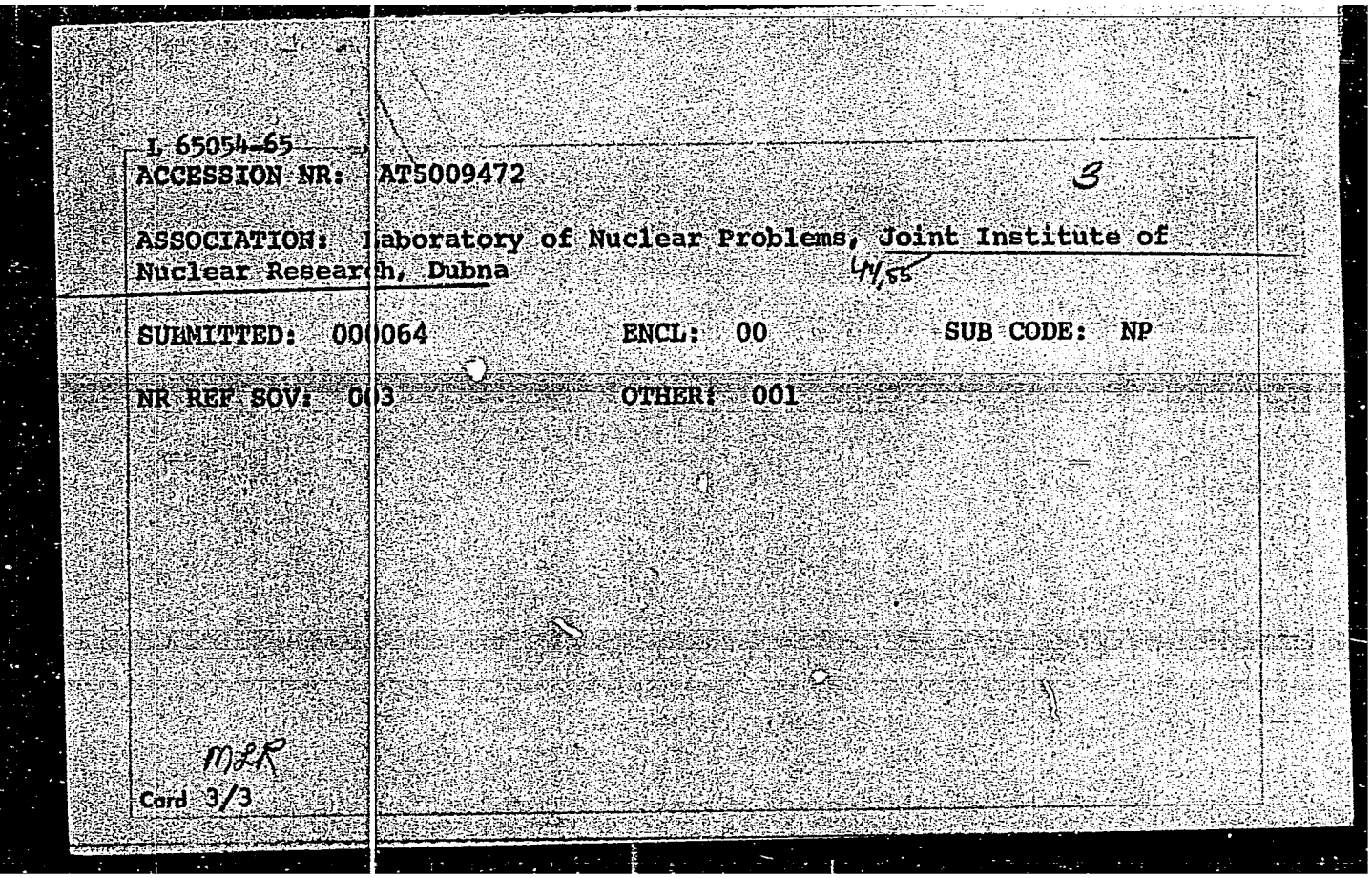

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ACCESSION NR: AT5009472 3

ASSOCIATION: Laboratory of Nuclear Problems, Joint Institute of Nuclear Research, Dubna 44,55

SUBMITTED: 00 0064 ENCL: 00 SUB CODE: NP

NR REF SOV: 003 OTHER: 001

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Card 3/3

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4"

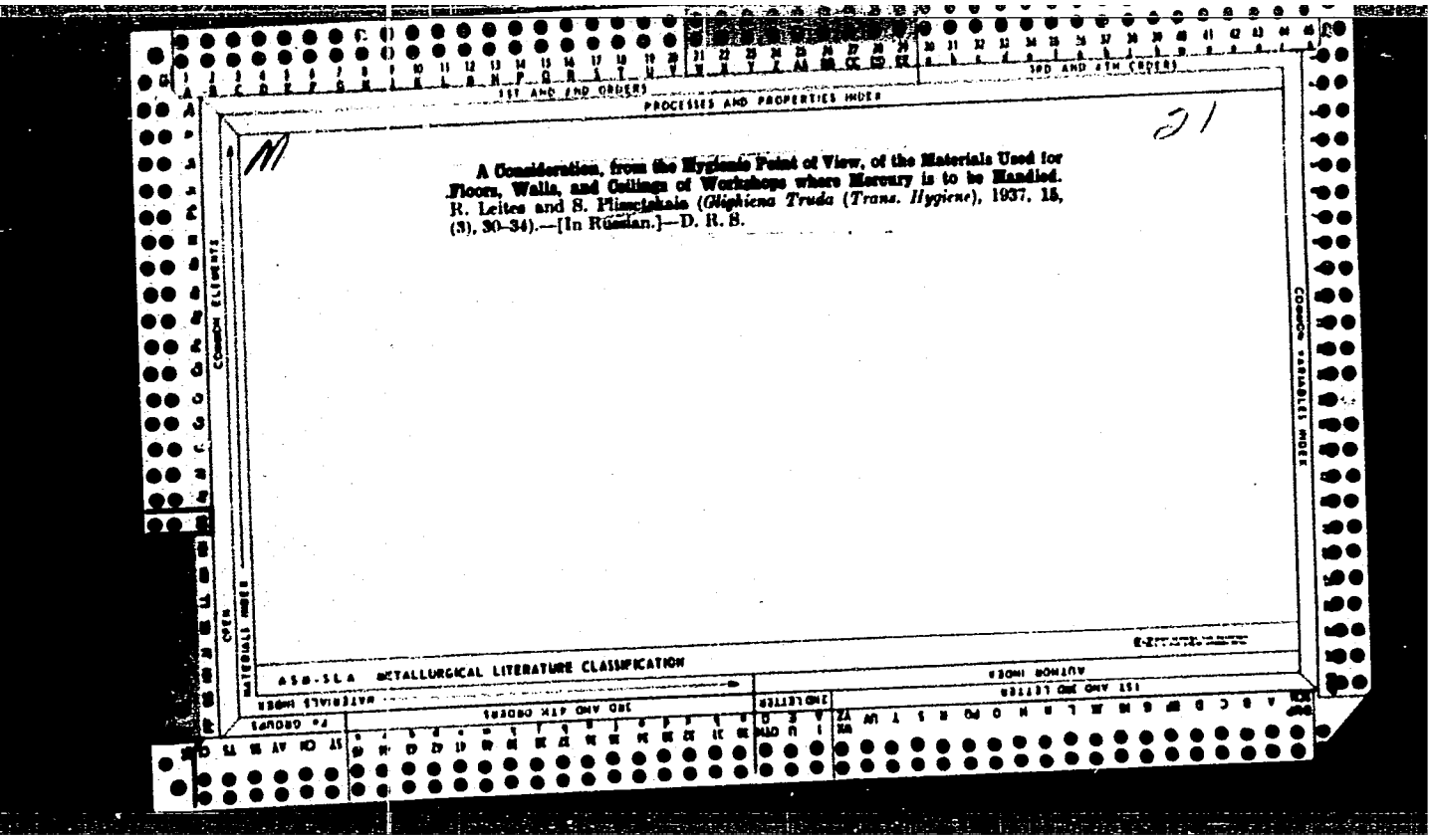
"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

ZYULKOVSKIY, Zdislav [Ziolkowski, Zdislaw]; PLISSA, A.V., inzh. [translator]; ROMANKOV, P.G., prof., red.; KUROCHKINA, M.I., red.; ERLIKH, Ye.Ya., tekhn. red.

[Liquid extraction in the chemical industry] Zhidkostnaia ekstraktsiia v khimicheskoi promyshlennosti. Leningrad, Goskhimizdat, 1963. 478 p. Translated from the Polish. (Extraction (Chemistry)) (MIRA 16:9)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4



A Consideration, from the Hygienic Point of View, of the Materials Used for Floors, Walls, and Ceilings of Workshops where Mercury is to be Handled. R. Leites and S. Plimelzhain (*Gigiiena Truda* (*Trans. Hygiene*), 1937, 15, (3), 30–34).—[In Russian.]—D. R. S.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

PLISSKIN, G.I., inzhener.

Use of the equivalent rate of concentration in analyzing stage systems of evaporation. Teploenergetika 3 no.1:35-38 Ja '56. (MLRA 9:2)

1.Donetskoye otdeleniye kontory po organizatsii i ratsionalizatsii rayonnykh elektrostantsiy i seti.
(Feed water--Testing)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

PLISSKIN, G. I.

PERIODICAL ABSTRACTS

Sub.: USSR/Engineering AID 4154 - P

PLISSKIN, G. I.

O PRIMENENII EKVIVALENTNOY KRATNOSTI KONTSENTRATSII K ANALIZU SKHEM STUPENCHATOGO ISPARENIYA (Equivalent ratio of salt content used for the analysis of the stage evaporation system). Teploenergetika, no. 1, Ja 1956: 35-38.

A general analysis of the performance of the stage evaporation system on the basis of the equivalent ratio of salt contents. Simplified methods of thermo chemical testing of boilers are discussed. One diagram.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

PLISSOV, A. K.

"Oxydation des produits de petrole a des temperatures elevees". Plissov, A. K.; Grebennikova, M. D. (p. 547)

SO: Journal of General Chemistry (Zhurnal Obshchei Khimii) 1939, Volume 9, #6

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

PLISSOW, A. K.

"Sur la question de l'oxydation des hydrocarbures du petrole". Plissow, A. K. (p. 516)

SO: Journal of General Chemistry (Zhurnal Obshchei Khimii) 1936, Vol. 6, No. 4

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

PLISTIK, A.S.

Attachment for the repair of the differential gear of the reductor ZIU-5 trolleybuses. Rats. predl. na gor. elektrotransp. no.9:34-35 '64. (MIRA 18:2)

1. Depo No.2 Tramvayno-trolleybusnogo upravleniya Leningrada.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

Pliszczynski, Z.

Suitability of the indicator method for determining digestibility coefficients with pigs: digestibility of fish pastes and mushroom meal. J. Krupka, Z. Pliszczyński and J. Skulmowski (*Roczn. Nauk rol.*, 1955, **69**, B, 195—219).—In digestibility trials with pigs Cr_2O_3 is preferable to SiO_2 as an indicator substance. For Norwegian fish pastes and mushroom meal (*Cantharellus cibarius*), respectively, the digestibility data were: org. matter, 83·4, 89·6; crude protein, 78·7, 53·9; true protein, 99·5, 66·3; fibre, —, 85·0; N-free extractives, —, 91·7%. A. G. POLLARD.

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APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

PLISZCZYNSKI, ~~Zd~~ Zbigniew

SURNAME, Given Names

(4)

Country: Poland

Academic Degrees:

Affiliation:

Source: Warsaw, Medycyna Weterynaryjna, Vol XVII, No 8, August 1961, pp 471-474

Data: "Nutritional Values of Mixed Feed Concentrates Produced by the Fodder Industry."

Authors:
SKULMOWSKI, Jozef; Prof. dr.; Director of the Biochemistry Depactment (Zaklad Biochemii), Veterinary Institute (Instytut Weterynarii), Pulawy; and p f the Department of Physiological Chemistry (Zaklad Chemii Fizjologicznej), Higher Agricultural School (WSR-- Wyzsza Szkola Rolnicza) Lublin.
DRZAS, Edward
PLISZCZYNSKI, Zbigniew

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APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

PLISZCZYNSKI, Zbigniew

SURNAME, Given Names

Country: Poland

(5)

Academic Degrees:

Affiliation:

Source: Warsaw, Medycyna Weterynaryjna, Vol XVII, No 8, August 1961, pp 471-474

Data: "Nutritional Values of Mixed Feed Concentrates Produced by the Fodder Industry."

Authors:

SKULMOWSKI, Jozef; Prof. dr.; Director of the Biochemistry Department (Zaklad Biochemii), Veterinary Institute (Instytut Weterynarii), Pulawy; and p f the Department of Physiological Chemistry (Zaklad Chemii Fizjologicznej), Higher Agricultural School (WSR -- Wyzsza Szkola Rolnicza) Lublin.

DRZAS, Edward

PLISZCZYNSKI, Zbigniew

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

WAZNY, Mieczyslaw; PLISZCZYNSKA-BRENNENSTUHL, Maria

Radiological examination of the salivary glands with the use of water-soluble contrast media. Pol. przegl. radiol. 29 no.3: 249-255 My-Je '65.

1. Z Zakladu Radiologii AM w Lublinie (Kierownik: doc. dr. med. K. Skorzynski) i z Kliniki Otolaryngologicznej AM w Lublinie (Kierownik: prof. dr. med. B. Dylewski).

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

PLISZKA, Anna

Investigations on the occurrence and methods for the determination of pathogenic streptococci in some food products. Roczn. panstw. zakl. hig. 14 no.4:411-420 '65.

1. Z Zakladu Badania Zywnosci i Przedmiotow Uzytku Panstwowego Zakladu Higieny (Kierownik: prof. dr. M. Nikonorow).

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

PLISZKA, A.

Direct determination of staphylococcal toxic agents in food extracts. Acta microb. polon 5 no.1-2:253-258 1956.

1. Z Zakladu Badania Zywnosci i Przedmiotow Uzytku PZH w Warszawie.
(MICROCOCCUS PYOGENES,
toxin, determ. in food (Pol))
(FOOD,
determ. of Micrococcus pyogenes toxin (Pol))

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

PLISZKA, A

"Comparison of the Effect of Staphylococcus Exterotixin on Cats by Intravenous, Subcutaneous, and Intramuscular Injections." p. 466 (Dziennik Urzedowy, No. 4, 1953, Warszawa)

SO: Monthly List of East European Accessions, Library of Congress, Vol. 3, No. 6, June. 1954, Uncl.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

PLISZKA, Anna

Cows as carriers of coagulase staphylococci in their udders. Rocznı państw zakl hig 14 no 2:199-204 '63

1. Laboratory for Testing Food and Articles of Common Consumption, State Institute of Hygiene, Warsaw.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

PLISZKA, Anna

Phage types of enterotoxic staphylococci and phage differentiation of strains in epidemiological investigations and cases of food poisoning. Med.dosw.mikrob. 12 no.4:323-330 '60.

1. Z Zakladu Badania Zywnosci i Przedmiotow Uzytku PZH.
(BACTERIOPHAGE)
(STAPHYLOCOCCUS)
(FOOD POISONING)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

PLISZKA, A.

GREKOWICZ, M.; PLISZKA, A.

"Results of biological studies on the toxicity of Pas home-produced food colorings" p. 247 (Roczniki, No. 3, 1953, Warszawa)

SO: Monthly List of East European Accessions, Vol. 3, No. 3 Library of Congress, March 1954, Uncl.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

PLISZKA, A.

POL.

The action of G-30 on various types of microorganisms.

Anna Pliszka (Zakład Badania Żywności i Przedmiotów Użytku P.Z.H., Warsaw). *Roczniki Państwowego Zakładu Hig.* 3, 293-313(1952).—The effect, in milk, of various concns. of G-30 (from Belgium's "Sopura"), a bromoacetate of a higher alc., used as a food preservative, was noted on *Escherichia coli* (1), *Aerobacter aerogenes* (2), *Salmonella typhimurium* (3), *S. enteritidis* (4), *Micrococcus pyogenes* var. *aureus* (5), *Streptococcus pyogenes* (6), an *Enterococcus* (7), *Streptococcus lactis* (8), *S. cremoris* (9), *Bacillus mesentericus* (10), *Clostridium perfringens* (11), *C. lentoputrescens* (12), *C. butyricum* (13), *Lactobacillus casei* (14), an *Acetobacter* sp., *Saccharomyces cerevisiae*, *S. ellipsoideus*, *Cladosporium herbarum*, *Alternaria tenuis*, and a *Fusarium* sp. For bacteria 1–14 1:1000–1:5000 was bacteriostatic while 1:1000–1:2000 was bactericidal; for the rest of the microorganisms 1:20,000 was bactericidal. The curdling and souring of milk by (1) and (5) were significantly delayed at 1:100,000 but there was no effect on bacterial growth. Dils. of 1:20,000 and lower gave the product a foreign odor. 20 references.

L. J. Piotrowski

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

PLISZKA, ANNA

Biological studies on the toxicity of four derivatives of aminosalicylic acid used as food colors. Marta Grekowicz and Anna Pliszka. *Roczniki Państwowego Zakładu Hig.* 1953, 4:247-67 (English summary); cf. following abstr.—Four sodium diazo salts of *p*-aminosalicylic acid were tested. In the first expt., the dyes were given orally to rats in increasing daily doses from 0.2 to 1.0 g. per kg. body weight and then 1 g. per kg. for 10 successive days. Mice received orally 2 g. per kg. body weight for 10 successive days. Doses of 2 g. per kg. body weight were given to rabbits 3 times every 3 days. No differences were noted between expt. and control animals in general behavior or in the compn. of urine. In autopsy, no pathol. changes were found in the alimentary tract, livers, kidneys, and spleens. Histological studies also revealed no changes in these organs. Studies of the dye balance showed that a certain amt. of these compds. was partially decompd. in the body. In the second expt., daily doses of 60 mg. were given to young rats over a period of 5½ months. Similar quantities of dyes were given daily for a period of 3 months to the second-generation rats. No influence was observed on growth, development, and general behavior. Hematologic studies also revealed no differences between expt. and control animals. Neither in autopsy, nor in histological examn. was any change disclosed in the kidneys, livers, and spleens of the second-generation rats. Alina S. Szczesniak

(1)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

BURBIANKA, Maria; PLISZKA, Anna; BURZYNSKA, Halina

Studies on the carriage of enterotoxic staphylococci in selected food plants and the correlation between phage and serological types, antibiogram and enterotoxin production. Med.dosw.mikrob. 13 no.4:309-321 '61.

1. Z Zakladu Badania Zywnosci i Przedmiotow Uzytku PZH.

(SALMONELLA) (FOOD microbiol)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

MICHALSKI, J.; PLISZKA, B.

Reactions of dialkoxyoxophosphoranesulphenyl chlorides $(RO)_2P(O)SCl$ with tetraalkyl esters of phosphorous phosphoric anhydride $(R'O)_2P-O-P(O)(OR'')_2$. Synthesis of isomeric tetraalkyl thiopyrophosphates. Bul chim. PAN 10 no.6:267-269 '62.

1. Institute of Organic Synthesis, Polish Academy of Sciences, Warsaw, and Department of Organic Chemistry, Technical University, Lodz. Presented by O. Achmatowicz.

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

PLISZKA, B.

COUNTRY : POLAND
CATEGORY : Organic Chemistry. Synthetic Organic Chemistry

ABS. JOUR. : RZKhim., No. 1 1960, No. 1302

AUTHOR : Michalski, J.; Wieczorkowski, J.; Wasiak, J.;*
INST. : -
TITLE : On Reactions of Organic Disulfides with Dialkyl Phosphites, Dialkyl Thiophosphites and Sodium Derivatives. A New Synthesis of O,O,S-trialkyl** Dithiophosphates

PER. PUB. : Roczn. chem., 1959, 33, No 1, 247-250

ABSTRACT : In the reaction of $[(RO)_2P(O)S]_2$ (here and subsequently R = C_2H_5) with $(RO)_2P(O)H$ (I), $(RO)_2P(S)OP(O)(OR)_2$ and $(RO)_2P(S)OI$ are formed, yielding 70%. From the Na-salt of I and R'SCH'

*Pliszka, B.

**Thiophosphates, O,O,S-trialkyl Dithiophosphates and O,S-dialkyl Hydrogen Phosphorothiolates

CARD: 1/3

G-40

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

COUNTRY :
CATEGORY :

ABS. JOUR. : RZKhim., No. 1 1960, No. 1302

AUTHOR :
INST. :
TITLE :

ORIG. PUB. :

ABSTRACT : In C_6H_6 (<20°), $(RO)_2P(O)SR'$ (II R' = n-C_4H_9, C_6H_5) and R'SNa were obtained, with yields of 60-90%. II (R' = n-C_4H_9) was synthesized, b.p. 135-136°/13 mm, $n^{19}D$ 1.4587. Analogously, from $(RO)_2PSNa$ and $C_4H_9SSO_4H_9$, $(RO)_2PSSC_4H_9$ was obtained, with a yield of 64%, b.p. 145°/12 mm, $n^{25}D$ 1.4961. At an elevated temperature, II reacts with R'SNa and forms R'SP(O)(OR)ONa

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

FLISZKA, B.

Reactions of organic disulfides with dialkyl phosphites, dialkyl thiophosphites and sodium derivatives. A new synthesis of *O,O,S*-trialkyl thiophosphates, *O,O,S*-trialkyl dithiophosphates and *O,S*,-dialkyl hydrogen phosphorothiolates. Jan Michalski, Jan Wieczorkowski, Jan Wasiak, and Bożena Pliszka (Politechnika, Łódź, Poland). *Roczniki Chem.* 33, 241–56(1959)(in English).—The reactions between acyl disulfides (I) and dialkyl phosphites (II), dialkyl thiophosphites (III), or their Na derivs. (IV) and (V), resp., have been studied (b.p./mm. and $n^{20}D$ given for the compds. below). II react spontaneously only with I to give $(RO)_2P(S)OP(O)(OR)_2$ (R = Et), 78–80°/0.03, 1.4453, and $(RO)_2PSOH$ (R = *Et*), 62–3°/0.03, 1.4644, in 70% yield. IV react with I in C_6H_6 at 20° as well as with diaryl or dialkyl disulfides (VI), R'SSR', to yield $(RO)_2P(O)SR'$ (R = Et, R' = *Bu*; 135–6°/18, 1.4587; (R = *Et*, R' = *Ph*), 115–16°/0.6, 1.5248; and R'SNa. An analogous reaction takes place between V and VI giving 64% *O,O*-diethyl *S*-butyl dithiophosphate, 145°/12, 1.4961. An ionic mechanism is suggested for this reaction. The reaction between IV and VI in boiling C_6H_6 led to secondary dealkylation due to nucleophilic attack of an anion contg. S, which gave $R'SP(O)(OR)ONa$ (VII) and R'SR. VII are characterized as cyclohexylamine salts: R = Et, R' = Bu, m. 125–6°; R = Et, R' = Ph, m. 130–1°. The yields of VII were 60–70%.

A. Kręglewski

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PLISZKA, F.

Importance of aquatic fauna as food for fish in the light of Polish researches. p. 429.
(POLSKIE ARCHIWUM HYDROBIOLOGII. Vol. 3, 1956, Warszawa, Poland)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, no. 12, Dec. 1957. Uncl.

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

POLAND / Organic Chemistry. Organic Synthesis. G-2

Abs Jour: Ref Zhur-Khimiya, No 1, 1959, 1227.

Author : Lesiak, T., Pliszka, H.
Inst : Not given.
Title : The Preparation of 2,4-Diaminobenzoic Acid From o-Nitroethylbenzene.

Orig Pub: Roczn. chem., 1957, 31, No 3, 1033-1035.

Abstract: 2,4-Diaminobenzoic acid (I) was synthesized — a probable starting material for the preparation of p-aminosalicylic acid. 2,4-Dinitroethylbenzene (II) was synthesized by the action of a mixture of 76 grams of HNO_3 (d 1.5) and 128 grams of H_2SO_4 (d 1.84) (40-50°C., 60 minutes; 90°C., 30-150 minutes) per 0.4 moles of o-nitroethylbenzene (b.p. 112-114°C./10mm., d_4^{20} 1.12; $n^{20}D$ 1.5384), yield 64%, b. p. 162-164°C./10 mm.,

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MICHALSKI, Jan; PLISZKA-KRAWIECKA, Bozena; SKOWRONSKA, Aleksandra

Organophosphorus derivatives of sulfur and selenium. Pt.26.
Rocz chemii 37 no.11:1479-1487 '63.

1. Institute of Organic Synthesis, Polish Academy of Sciences, Lodz.

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

PLISZKOVA, A.

POLAND / General and Specialized Zoology. Insects. P
Insect and Mite Pests.

Abs Jour : Ref Zhur - Biol., No 10, 1958, No 44834

Authors : Krauze, S.; Mlodecki, H.; Pliszkova, A.; Burzynska, H.; Zaleski, S.

Inst : State Institute of Hygiene

Title : Preliminary Studies in the Use of a High Frequency Current for the Destruction of Micro-organisms and Cereal Mites in Flour.

Orig Pub : Roczn. Panstw. zakl. hig., 1956, 7, No. 5, 419-423.

Abstract : A generator creating an electric field of 27Mgc frequency (the wavelength was 11.1 m) was used. Satisfactory destruction of the rod-shaped potato bacilli (Bacillus mesentericus) was not obtained in the experiments. The current had some effect on the vegetative forms of the rod-

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PLISZKOWE A.

COUNTRY : Poland H-28
CATEGORY :

ABS. JOUR. : RZKhim., No. 21 1959, No. 76640

AUTHOR : Pliszkowe, A.
INST. : Not given
TITLE : On the Microflora in Pasteurized Hams

ORIG. PUB. : Przemysl Spozywczy, 12, no 4, 132-135 (1958)

ABSTRACT : The author reviews research done by foreign scientists on the microflora in pasteurized hams. Questions pertaining to the technique used in pasteurization, the composition of the microflora in the hams, the possibility of the survival of pathogenic bacteria in the hams, and the complete removal of botulism bacteria, saprophytic bacteria, micrococci, and aerobic bacteria are discussed.

Z. Fabinskiy

CARD: 1/1

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

PLISZKOWA, A.

"Food poisoning", p. 10, (ZDROWIE, Vol. 5, No. 7, 1953, Warszawa, Poland)

SO: Monthly List of European Accessions, L.C., Vol. 3, No. 4, April, 1954

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

PLIT, I.G.

Mass transfer coefficient in the processes of chemisorption of gas by a large diameter drop. Ukr. khim. zhur. 31 no.9: 979-986 '65. (MIRA 18:11)

1. Dnepropetrovskiy khimiko-tekhnologicheskiy institut.

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

PLIT, I.C.

Theory of absorption complicated by an equilibrium chemical reaction in the liquid phase. I. G. Vit (Chem.-Technol. Inst., Dnepropetrovsk). *Zhur. Prikład. Khim.* 31, 54–60 (1958); cf. Belopol'skii *C.A.* 41, 6027i.—Belopol'skii's 2nd-order differential equation (*loc. cit.*) integrated between specific limits is valid only for limiting cases, i.e. when the reaction zone is at the gas-liquid interface. A more general soln. is obtained by representing the liquid film a as consisting of a neutralized zone $= b_1$ and a non-neutralized zone $(a-1)b_1$ at which the concn. of the dissolved gas decreases from x_1, at the gas-liquid film interface to x_r at the liquid film-liquid bulk interface, where x_r is the equil. concn. The generalized equation for the amt. G absorbed per unit area F per unit time τ, $G/F\tau = \beta(D_1/b_1)(x_1 - x_r)$, consists of the coeff. K_1 for simple absorption and the dimensionless group β, which is a function of $R = \sqrt{K_s/D_1}$, detd. by the effect of the chem. reaction on the absorption process; where D_1 is the diffusion coeff. and K_s the chem. reaction rate const. (*loc. cit.*). Equations for 5 specific cases affecting β are given. Thus, when $\alpha = 0$, insol. gas, and the reaction occurs at the gas-liquid interface, Pozin's equation (*C.A.* 42, 15b) is applicable.

I. Beneovitz

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PLIT, I.G. [Plit, I.H.]

Rectifying still with atomizing nozzle plates. Khim. prom. no.4: 32-33 O-D '64. (MIRA 18:3)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

PLIT, I.G.

Pulverizer-type scrubber-decarbonizer. Khim. prom. 40 no.8: 621-624 Ag '64. (MIRA 18:4)

1. Dnepropetrovskiy khimiko-tekhnologicheskiy institut.

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

PLIT, I.G.

Coefficients of mass transfer in gas absorption processes by large diameter drops. Izv. vys. ucheb. zav.; khim. i khim. tekh. 8 no.3:491-498 '65. (MIRA 18:10)

1. Dnepropetrovskiy khimiko-tekhnologicheskiy institut imeni Dzerzhinskogo, kafedra protsessov i apparatov.

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

PLIT, I.G.

Theory of chemisorption in countercurrent gas streams and large-diameter dripping. Izv. vys. ucheb. zav.; khim. i khim. tekh. 7 no.5:842-851 '64 (MIRA 18:1)

1. Kafedra protsessov i aparatov Dnepropetrovskogo khimiko tekhnologicheskogo instituta imeni F.E. Dzerzhinskogo.

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

PLIT, I.G.

USSR/Processes and Equipment for Chemical Inductries K-1
Processes and Apparatus for Chemical Technology

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 14181

Author : Plit I.G., Shishkin K.N.
Title : Absorption of Carbon Dioxide by a Solution of Potash in a Bubble of Foam.

Orig Pub : Zh. prikl. khimii, 1956, 29, No 9, 1323-1329

Abstract : Study of the process /of absorption/ of CO_2 by a solution of potassium carbonate (I) depending upon the basic factors. Experiments were conducted in a unit where absorption was effected in an individual bubble of foam and consequently the surface of phase contact could be determined by calculations. A study was made of the effect of addition of surface active substance, saponin, (II), on absorption kinetics, and it was found that with low concentrations of II $x < 0.6$ g/liter, there is observed a decrease in rate of absorption, and absorption

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PLIT, I.G.

Theory of chemisorption in the direct flow of gas and "large" diameter drops. Zhur. prikl. khim. 38 no.7:1527-1535 Jl '65. (MIRA 18:7)

1. Dnepropetrovskiy khimiko-tekhnologicheskiy institut.

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

PLIT, I.G.

Analytical solution of a differential equation for mass transfer in a scrubber process of absorption in a laminar regime of phase motion. Report No.1. Trudy DKHTI no.10:17-26 '60. (MIRA 14:1)
(Differential equations)
(Scrubber (Chemical technology)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

PLIT, I.G.

Absorption of carbon dioxide by a monoethanolamine solution in a scrubber with a pulverizing sprayer tray. Khim. prom. no.5:377-381 My '63. (MIRA 16:8)

1. Dnepropetrovskiy khimiko-tekhnologicheskiy institut.

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

PLIT, I.G. [Plit, I.H.], kand. tekhn. nauk

Absorption of sulfur dioxide by water in a scrubber with jet nozzle plates. Khim. prom. [Ukr.] no.4:50-52 O-D'63. (MIRA 17:6)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

PLIT. I.G.; NIIUS, S.G.

Absorption of hydrogen sulfide by potassium carbonate solution in a foam bubble. Trudy DKHTI no.16:161-172 '62 (MIRA 17:8)

Absorption of hydrogen sulfide by potassium carbonate solution in scrubbers with a porous packing. Ibid.:209-219

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

PLIT, I.G.; DAL', V.I.

Side adsorption of carbon dioxide in the potassium hydroxide process of the removal of hydrogen sulfide. Trudy DKHTI no.6: '58. (MIRA 13:11)
(Carbon dioxide) (Hydrogen sulfide)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

PLIT, I.G.

Modeling of packed columns. Trudy DKHTI no.6:242-248 '58.. (MIRA 13:11)

(Packed towers)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

PLIT, I.G.

Kinetics of the regeneration process of absorbing solutions in potash-type sulfur purification. Zhur.prikl.khim. 30 no.1:167-169 Ja '57. (MLRA 10:5)

1.Dnepropetrovskiy khimiko-tekhnologicheskiy institut.
(Potassium sulfide) (Sulfur)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

Plit, I. G.

Chem 1

Regeneration of absorbing solutions in the potassium method of removing hydrogen sulfide from industrial gases. I. I. G. Plit (Chem.-Technol. Inst., Dnepropetrovsk). *Zhur. Prikład. Khim.* 29, 1044–7(1956).—The equil. consts. and the thermodynamic relations of the reactions involved in the scrubbing of H_2S from industrial gases with K_2CO_3–$KHCO_3$ are analyzed. During regeneration of the soln., by boiling, the reactions $KHS + KHCO_3 \rightarrow K_2CO_3 + H$— and $2KHCO_3 \rightarrow K_2CO_3 + CO_2 + H_2O$ take place. The 2nd reaction is more rapid than the 1st and KHS does not decomp. in the absence of $KHCO_3$. Thus, in a soln. with a mol. ratio of $KHCO_3/KHS = 2.15$ all of the $KHCO_3$ is regenerated in 80 min. whereas only 40% of the KHS is converted; after 40 min. 70% of the $KHCO_3$ is regenerated and the proportion of KHS attains a const. value. It is necessary, therefore, to retard the decompn. of the former in order to accelerate the decompn. of KHS. This was accomplished by regenerating the solns. *in vacuo* from 145 to 700 mm. Hg. At 670–700 mm. Hg, corresponding to 54–55° (the temp. range at which $KHCO_3$ begins to decomp.), practically all of the KHS is decompd. To prevent the accumulation of $KHCO_3$ a 2-stage regeneration cycle is suggested. I. Berenowitz

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PLIT, I.G.

Regeneration of absorbing solutions in the potassium method of removing hydrogen sulfide from industrial gases. Zhur. prikl. khim. 29 no.11:1644-1647 N '56. (MLRA 10:6)

1. Dnepropetrovskiy khimiko-tekhnologicheskiy institut.
(Carbon dioxide) (Hydrogen sulfide)
(Potassium carbonates)

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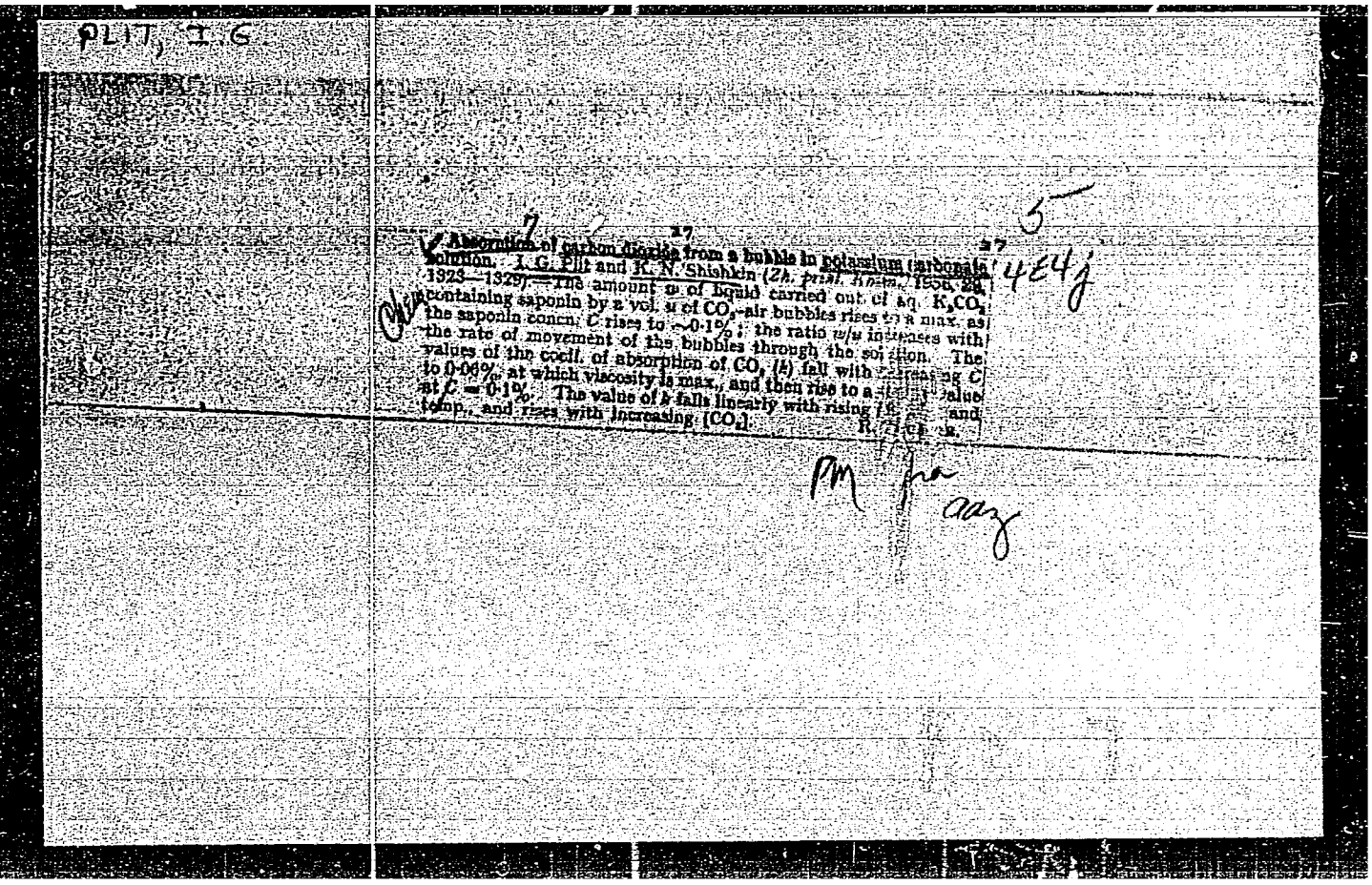

PLIT, I.G

Absorption of carbon dioxide from a bubble in potassium carbonate solution. I. G. Plit and R. N. Shishkin (*Zh. prikl. Khim.*, 1956, 29, 1323—1329).—The amount *a* of liquid carried out of aq. K_2CO_3 containing saponin by a vol. *v* of CO_2–air bubbles rises to a max. as the saponin concn. *C* rises to ~0·1%; the ratio *v*/*a* increases with the rate of movement of the bubbles through the solution. The values of the coeff. of absorption of CO_2 (*k*) fall with increasing *C* to 0·06% at which viscosity is max., and then rise to a [illegible] value at *C* = 0·1%. The value of *k* falls linearly with rising [illegible] temp., and rises with increasing $[CO_2]$. R. [illegible]

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PLIT, I.G.

On the absorption theory of complicated equilibria of chemical reaction in the liquid phase. Zhur. prikl. khim. 31 no.1:54-60 Ja '58. (MIRA 11:4)

1.Dnepropetrovskiy khimiko-tekhnologicheskiy institut.
(Absorption) (Phase rule and equilibrium)

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PLIT, I.G.

Scrubber process absorbtion of sulfuric acid by the potassium carbonate solution. Zhur. prikl. khim. 31 no.2:186-191 F '58. (MIRA 11:5)

1. Dnepropetrovskiy khimiko-tekhnicheskiy institut.
(Sulfuric acid) (Potassium carbonate)
(Scrubber (Chemical technology))

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Plit I G.

USSR/Chemical Technology - Chemical Products and Their Application. Elements. Oxides. Mineral Acids. Bases. Salts H-2

Abs Jour : Referat Zhur - Khimiya, No 1, 1958, 1870

Author : Plit I.G.
Inst : -
Title : Kinetics of the Process of Regeneration of the Absorbent Solution in Potash Sulfur Purification. Communication II.

Orig Pub : Zh. prikl. khimii, 1957, 30, No 1, 167-169

Abstract : A study of the kinetics of the process of regeneration of the solution, in the first stage (of a 2-stage regeneration) has shown that the optimal conditions are a high intensity boiling of the solution and maximal possible ratio $K-KHCO_3$:KHS (mole/mole) in the solution. Results of the experiments, with a duration of boiling of up to 10 minutes, are expressed by the empirical equation: degree of decomposition of KHS (in %) = $8.15 \cdot t^{0.68} K^{0.24} 10^{0.0168}$

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PLIT, I.G.

Regularities of the process of chemisorption of gases by a moving drop of large diameter. Ukr. khim. zhur. 30 no.6:557-565 '64. (MIRA 18:5)

1. Dnepropetrovskiy khimiko-tekhnolcgicheskiy institut.

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

PLIT, I.G.

Contribution to the theory of mass transfer in concentrated streams of drops of large diameters. Zhur. prikl. khim. 37 no.6:1301-1309 Je '64. (MIRA 18:3)

1. Dnepropetrovskiy khimiko-tekhnologicheskiy institut.

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

PLIT, I.G.

Theory of mass transfer in drops of small diameter in contact with gas of constant concentration. Zhur. prikl. khim. 38 no.1: 135-143 Ja '65. (MIhA 18:3)

1. Dnepropetrovskiy khimiko-tekhnologicheskiy institut.

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

PLIT, I.G. POLYANCHIKOV, I.N., inzh.

Comparative evaluation of atomizations in some designs of pneumatic low pressure nozzles. Khim. i neft. mashinostr. no.6:23-26 D '64 (MIRA 18:2)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

PLIT, I. G.

Determination of the duration of contact and of the conditions of motion of interacting phases in a scrubber with an atomization nozzle. Izv. vys. ucheb. zav.; khim. i khim. tekh. 5 no.5:827-831 '62. (MIRA 16:1)

1. Dnepropetrovskiy khimiko-tekhnologicheskiy institut imeni F. E. Dzerzhinskogo, kafedra protsessov i apparatov.

(Scrubber(Chemical technology))

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PLIT, I.G.; SHISHKIN, K.N.

Absorption of carbon dioxide by potash solution in a foam bubble. Zhur.prikl.khim. 29 no.9:1323-1329 S '56. (MLRA 9:11)

1. Dnepropetrovskiy khimiko-tekhnologicheskiy institut.
(Carbon dioxide) (Scrubber (Chemical technology))

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L 39748-65 EWT(1)/EWP(m)/EWA(j)/EWG(v)/EWA(b)-2/FCS(k)/EWA(1) Pd-1/Pe-5/
ACCESSION NR: AP5002216 S/0314/64/000/006/0023/0026 Pi-4 RO

AUTHOR: Plit, I. G.; Polyanchikov, I. N. (Engineer)

TITLE: Comparative evaluation of sprays in certain designs of low-pressure nozzles

SOURCE: Khimicheskoye i neftyanoye mashinostroyeniye, no. 6, 1964, 23-26

TOPIC TAGS: nozzle design, sprayer, particle size, liquid spray, atomization

ABSTRACT: At the authors' Institute, a sedimentometric device has been designed for the purpose of studying the particle size distribution of liquid sprays. Using this device, the various parameters affecting the size of the sprayed particles were analyzed. On the basis of 300 experiments, the following relationship was derived:

$$\frac{d_{sp}}{D} = A\left(\frac{\sqrt{\sigma_1}}{\rho_1 w^2}\right)^{n}\left(\frac{\sqrt{\sigma}}{DV\sqrt{\gamma}}\right)^{0,75},$$

where A is the proportionality coefficient; γ, the density of the solution in

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ACCESSION NR: AP5002216

kg/m^3; σ, the surface tension of the solution in kg/m; ρ_g, the gas density in kg sec^2/m^4, and n, an exponent. Different types of nozzles designed to achieve an effective dispersion and reduce the internal resistance are illustrated and their characteristics are compared. Equations describing the atomizing processes of these nozzles were derived from the experimental data. Orig. art. has: 7 figures and 14 formulas.

ASSOCIATION: Dnepropetrovskiy khimiko-tekhnologicheskiy institut (Dnepropetrovsk Chemical Engineering Institute)

SUBMITTED: 00 ENCL: 00 SUB CODE: PR, IE

NO REF SOV: 004 OTHER: 000

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PLIT, I.G.; POLYANCHIKOV, I.N.

Sedimentation unit for determining the dispersion of liquid spray. Izv. vys. ucheb. zav.; khim. i khim. tekh. 7 no.3: 505-509 '64. (MIRA 17:10)

1. Dnepropetrovskiy khimiko-tekhnologicheskiy institut imeni Dzerzhinskogo, kafedra protsessov i apparatov.

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PLIT, I.G.; POLYANCHIKOV, I.N.; IVANOV, S.M.

Some preliminary results of investigation of the dispersions by means of mechanical atomizers. Trudy DKHTI no.16:189-191 '63.
(MIRA 17:2)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

PLIT, I.G. [Plit, I.H.], kand. tekhn. nauk; GUPALO, M.T. [Hupalo, M.T.]

Adsorption of sulfur dioxide from water by activated carbons. Khim. prom. [Ukr.] no.3:39-41 Jl-S '63. (MIRA 17:8)

1. Dnepropetrovskiy khimiko-tekhnologicheskiy institut.

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41635
S/080/62/035/009/007/014
D234/D307

11.7410

AUTHOR: Plit, I.G.

TITLE: Investigation of the degree of dispersion of the spray in sprayers operating on the basis of gas flowing on either side of the surface of the liquid

PERIODICAL: Zhurnal prikladnoy khimii, v. 35, no. 9, 1962, 1996 - 2007

TEXT: The average diameter of drops in the spray d depends on the gas velocity w, the specific weight of the liquid, the gas density the viscosity of the liquid, its surface tension, the diameter of the outlet aperture of the sprayer D, the characteristic linear dimensions of the system $l_1, l_2, \ldots, l_n$; and on the ratio of volumes of the liquid and gaseous phases L/V. With the aid of dimensional analysis, the author obtains an expression for d/D in terms of the other parameters, containing unknown constants which must be determined experimentally. For this purpose the author uses an optical method, improved by himself, in which d is calculated from the measured intensity of light passing through a layer of spray. The ex-

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PLIT, I.G.; KUZNETSOV, Ye.G.; LOBODA, N.S.; SHEVCHENKO, A.I.

Investigation of the process of hydrogen sulfide removal from coke-oven gas by potassium solutions in a scrubber with a pulverizing-atomizing plate. Koks i khim. no.10:42-47 O '61. (MIRA 15:1)

1. Dnepropetrovskiy khimiko-tekhnologicheskiy institut (for Plit). 2. Stalinskiy sovnarkhoz (for Kuznetsov). 3. Dnepropetrovskiy sovnarkhoz (for Loboda). 4. Yasinovskiy koksokhimicheskiy zavod (for Shevchenko).

(Hydrogen sulfide)
(Gas purification)
(Scrubber (Chemical technology))

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

PLIT, V.A.; BURMISTROV, S.I.

Acetylation of N-benzoyl sulfone derivatives of 6-aminohexanoic acid with acetic anhydride. Trudy DKHTI no.16:153-157 '63. (MIRA 17:2)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

PLIT, V.A.; BURMISTROV, S.I.

The derivatives of caprolactame and 6-aminocaproic acid. (MIRA 11:4)
Ukr. khim. zhur. 24 no.1:73-75 '58.

1.Dnepropetrovskiy khimiko-tekhnologicheskiy institut.
(Caproic acid) (Hexamethylenimine)

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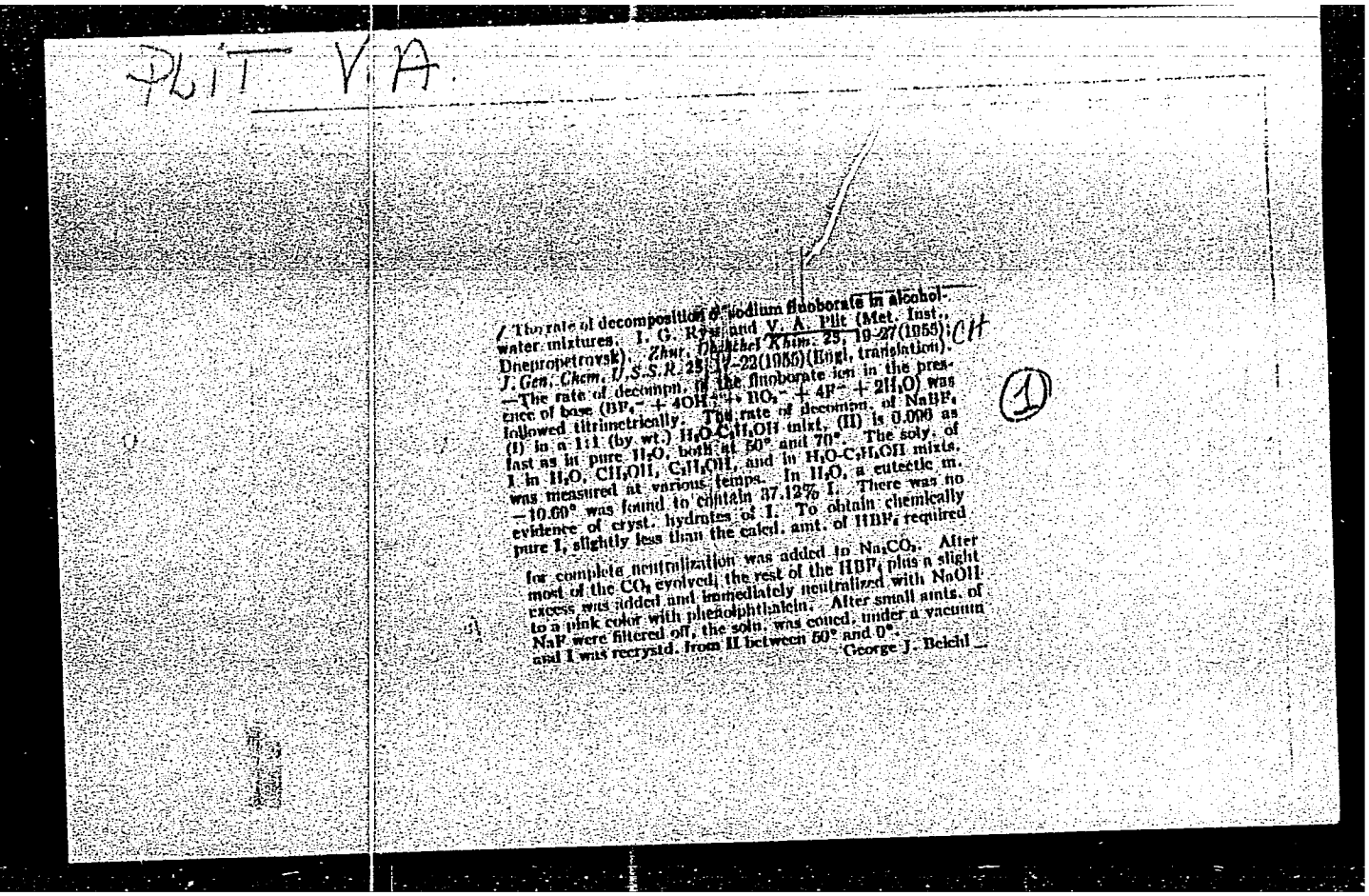

PLIT V-A.

The rate of decomposition of sodium fluoborate in alcohol-water mixtures. I. G. Ryss and V. A. Plit (Met. Inst., Dnepropetrovsk). *Zhur. Obshchei Khim.* 25, 19-27(1955). *J. Gen. Chem. U.S.S.R.* 25, 17-22(1955)(Engl. translation). —The rate of decompn. of the fluoborate ion in the presence of base ($BF_4^- + 4OH^- \rightarrow BO_2^- + 4F^- + 2H_2O$) was followed titrimetrically. The rate of decompn. of $NaBF_4$ (I) in a 1:1 (by wt.) H_2O-C_2H_5OH mixt. (II) is 0.006 as fast as in pure H_2O, both at 50° and 70°. The soly. of I in H_2O, CH_3OH, C_2H_5OH, and in H_2O-C_2H_5OH mixts. was measured at various temps. In H_2O, a eutectic m. —10.60° was found to contain 37.12% I. There was no evidence of cryst. hydrates of I. To obtain chemically pure I, slightly less than the calcd. amt. of HBF_4 required for complete neutralization was added to Na_2CO_3. After most of the CO_2 evolved, the rest of the HBF_4 plus a slight excess was added and immediately neutralized with NaOH to a pink color with phenolphthalein. After small amts. of NaF were filtered off, the soln. was concd. under a vacuum and I was recrystd. from II between 50° and 0°.

—George J. Beichl—

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PLITA, I.I.

Standard attachment for machining parts. Mashinostroitel' no. 5:20 My '64. (MIRA 17:7)

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KORENEVICH, A.I., dotsent; PLITAS, P.S., prof.

Answers to readers. Oft. zhur. 18 no.4:252-253 '63 (MIRA 17:4)

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PLITAS, P.S., prof.

Factors in removing nonmagnetic splinters from the corner of the anterior chamber. Oft.zhur. 13 no.4:220-225 '58 (MIRA 11:8)

1. Iz kafedry glaznykh bolezney (zav. - prof. P.S. Plitas) Kiyevskogo ordena Trudovogo Krasnogo Znameni meditsinskogo instituta im. akad. A.A. Bogomol'tsa.
(EYE--FOREIGN BODIES)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

PLITAS, P. S.

35571 Vnedreniye resnits vnutr' glaznogo yabloka pri boyevykh travmakh organa zreniya. Sbornik k pyatidesyatiletiyu nauch., ped., vracheb. I obshchestv. Deyatel'nosti k. kh. orlova. Gor'kiy, 1949, C. 147-53

SO: Letopis' Zurnal'nykh Statey, Vol. 45, 1949

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

FLIKS, P. S.

35572 Teoriya I praktika ottachivaniya glaznykh instrumentov. (Poroki rezhushchego glaznogo instrumentariya I vliyaniye ikh na khod operatsiy). Sbornik k pyatidesyatiletiyu nauch., ped., vrachebn. I obshchestv. Deyatel'nosti k. kh. orlova. Gor'kiy, 1949, C. 192-230

SO: Letopis' Zhurnal'nykh Statey, Vol. 45, 1949

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

PLITAS, Pavel Savvich; BELOSTOTSKIY, Ye.M., red.; GABERLAND, M.I., tekhn. red.

[Ophthalmoscopic atlas; manual for physicians and students] Oftal'moskopicheskii atlas; rukovodstvo dlia vrachei i studentov. Moskva, Gos. izd-vo med. lit-ry Medgiz, 1960. 224 p. (MIRA 14:7)
(OPHTHALMOSCOPY) (EYE—DISEASES AND DEFECTS)

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L 13296-66

ACC NR: AP6000331 SOURCE CODE: UR/0286/65/000/021/0020/0020

INVENTOR: Drapkina, D. A.; Brudz', V. G.; Terskoy, Ya. A.; Doroshina, N. I.; Plitina, I. P.; Korol'kova, O. N.

ORG: none

TITLE: A method for producing a phosphorogen of red 630-(639)-5-(4'-diemethylaminobenzylidene)-barbituric acid. Class 12, No. 175969 [announced by the All Union Scientific Research Institute of Chemical Reagents and Especially Pure Chemical Substances (Vsesoyuznyy nauchno-issledovatel'skiy institut khimicheskikh reaktivov i osobo chistykh khimicheskikh Veshchestv)]

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 21, 1965, 20

TOPIC TAGS: phosphorescent material, luminescence, surface active agent

ABSTRACT: This Author's Certificate introduces a method for producing a phosphorogen of red 630-(639)-5-(4'-diemethylaminobenzylidene)-barbituric acid by condensation of barbituric acid with 4-dimethylaminobenzaldehyde in the presence of an alkali. The luminescence intensity of the product is increased by conducting the

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ACC NR: AP6000331

condensation in a aqueous medium in the presence of surface-active agents, e.g. OP-7.

SUB CODE: 07/ SUBM DATE: 26Jun64/ ORIG REF: 000/ OTH REF: 000

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310013-4

PLITKIN,A. (Leningrad)

Improving the "Record" and "ARZ" receivers. Radio no.6:54 Je '55
(Radio--Receivers and reception)

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